

True XGA/WXGA DLP®
Conference Projectors

XGPH80XN/XGPH80WN

Highly Reliable Projectors Delivering Superior Picture
Quality with High Luminance and Contrast Plus 3D



PJLink™

Conference Series

the **SHARP** experience

see what happens

SHARP

High-Brightness DLP® Picture Quality Plus 3D Image Compatibility — Ideal Projectors for Large and Mid-sized Business Venues and Education Situations

3D Picture

3D Ready

Make sure your projector is ready to be used for new 3D content. Incorporating DLP® Link™ technology, the projector captivates audiences with breathtaking 3D imagery.



Requirements for Viewing 3D

- 1) Source device that supports the field sequential format.
 - Refer to the Compatibility Chart on the back page for information on supported signals.
 - 3D formats other than field sequential, such as formats used for Blu-ray 3D and DVD prepackaged media, are not compatible with these projectors (as of March 2011).
- 2) 3D LCD shutter glasses that support the *DLP® Link™ system

* A picture simultaneously projected from more than two projectors may not appear 3D.

* Contact your nearest Sharp authorized projector dealer for purchasing details.

* For additional information about the DLP® Link™, visit: <http://www.dlp.com/projector/dlp-innovations/3d-ready.aspx>

High-Quality Picture

6,300 ANSI Lumen*¹ (XGPH80XN)/5,600 ANSI Lumen*¹ (XGPH80WN)

High Brightness with Unique Dual-Lamp System

With Sharp's advanced DLP® Optical Engine and dual 280 W high-brightness lamps, the projectors achieve a high brightness of 6,300 ANSI lumens*¹ for the XGPH80XN and 5,600 ANSI lumens*¹ for the XGPH80WN, delivering excellent uniformity for bright clear images in large highly lit rooms.

4-Mode Single/Dual Lamp Switchover

Choose the lamp arrangement to suit your needs. With dual-lamp projection, the XGPH80XN delivers high-luminance pictures in a huge room: 6,300 ANSI lumens*¹ in Normal mode and 5,175 ANSI lumens*¹ in Eco mode. Even single-lamp projection provides sufficient brightness for mid-size to large rooms: 3,150 ANSI lumens*¹ in Normal mode and 2,585 ANSI lumens*¹ in Eco mode. Single-lamp use also lessens lamp replacement frequency. Plus, even if one lamp burns out, projection performance can be maintained by using the other lamp without interruption.



6,300 ANSI lumen*¹ image with two lamps (XGPH80XN)



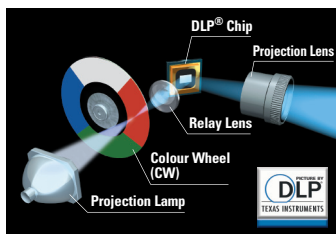
3,150 ANSI lumen*¹ with single lamp (XGPH80XN)

*¹ To be announced.

Cutting Edge DLP® Technology

DLP® System

The XGPH80XN and XGPH80WN use a DLP® system for the display device that controls the DLP® chip, which contains many thousands of micromirrors on the silicon chip, reflecting light to display images.



Long-Life High-Performance DLP® Chip

DLP® chip formation with finely structured mirrors provides stable performance and delivers high-quality pictures for longer periods. The DLP® chip in the XGPH80XN/XGPH80WN achieves a lifetime of 20,000 hours.*²

Also, because there is no burn-in or remaining afterimage, the projectors are ideal for still picture projection such as for guidance board applications and projecting CAD images.

*² The lifespan is measured at the surrounding temperature of 25°C. This is a reference value and is not guaranteed.

2100:1*³ High Contrast with Dynamic Black™ for Big-Screen Projection

The DLP® optical system prevents light leakage compared with LCD projection and provides sharper blacks in black parts and a high contrast ratio of 2100:1.*³

*³ To be announced.

Dynamic Black™ Technology

Dynamic Black™ technology dramatically improves black levels, providing incredible details in dark scenes with no noise and no loss of brightness.

BrilliantColor™ Technology with Optional Six-Segment Colour Wheel*⁴

The standard colour wheel can be easily replaced by the user with an optional Six-Segment Colour Wheel to enjoy BrilliantColor™. BrilliantColor™ technology improves picture brilliance particularly for intermediate colours, providing natural, detailed images. Sharp has also developed a 2x Speed Colour Wheel with six colour segments including yellow, cyan, red, green, blue, and magenta. With unique colour-matching technology and these six colour combinations, images can be reproduced with highly realistic colours.



4-segment colour wheel (red, blue, green, white)



6-segment colour wheel (red, blue, green, yellow, cyan, magenta)*⁴



Sealed Optics

The optical mechanism of DLP® system projectors is sealed in its structure, preventing dust, dirt and smoke from entering core parts of the optics to a much greater degree than with LCD projectors.

Flexible Installation System

Powered Vertical/Horizontal Lens Shift Control

The powered lens shift control mechanism enables easy horizontal and vertical lens shift positioning whether from a remote control or the projector operation panel to get the best viewing picture when the projector is mounted on a shelf or the ceiling.

Five Interchangeable Lenses

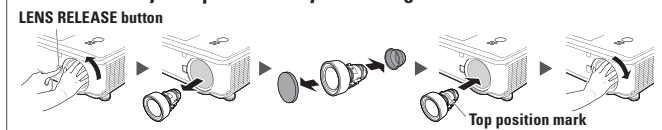
The XGPH80XN and XGPH80WN may be used with five optional interchangeable lenses to meet a wide variety of applications and projection situations. The lenses cover projection distances from 1.6 m to 16.9 m for the XGPH80XN and 1.7 m to 17.9 m for the XGPH80WN with a 100" screen and projection of a screen from 40" to 500". Choose the one which best suits your projection conditions such as the room size, projection distance and projected picture size.

Quick Lens Change

The lens can be easily and quickly removed from the front of the projector.*5

*5 Do not attempt to change the lens when the projector is installed hanging from the ceiling. Injury may occur if the lens cover or lens falls.

Quick release system provides easy lens change

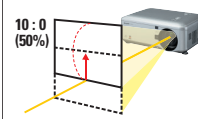


Anti-Theft Screw

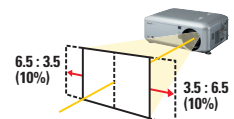
For added security, an anti-theft screw is supplied to secure the lens more tightly.

Lens Shift Control

Vertical Shift



Horizontal Shift



* with standard lens

Lens Shift Adjustable Range

Horizontal range: $\pm 10\%$

Vertical range: $\pm 50\%$ to the upper side except for the ANPH808EX

The adjustable range has limitations even within the ranges shown above.

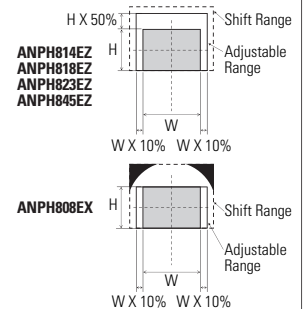
The image can be adjusted as shown in the diagram.

■ Areas on which the image is masked with a shadow while using the lens shift function.

H : Height of the image

W : Width of the image

(X) : The position of the image when the vertical position of the image is centred and the horizontal position is the lowest.



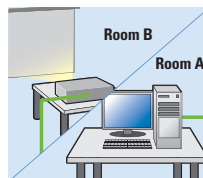
Sharp's Unique Network System

Web Browser Control

Web browser control enables remote access and management of the projector by utilizing built-in firmware without the need for additional special software.

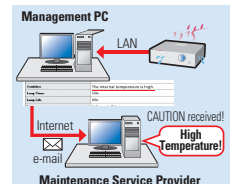
Remote Access for Control and Adjustment

Projector control functions, including power on, input select, volume, and AV mute, can be controlled and adjusted by a computer even in another room.



Diagnosis and Auto Email Alert

Email is automatically sent to appointed addresses when detecting an error message, such as the lamp going out, unusual heating or cooling fan breakdown.



PJLink™ Capability

The XGPH80XN and XGPH80WN are compatible with devices that support PJLink™, enabling systems to be easily built for centralized management and operation using a controller. For additional information about the PJLink™, visit <http://pjlink.jbmia.or.jp/english/>

Control System Compatibility

The XGPH80XN and XGPH80WN provide superior compatibility with various control systems such as Crestron, AMX and Extron.



Presentation Convenience

Low Fan Noise (Eco + Quiet mode)

The intelligent multiple-fan control system eliminates annoying sound during presentations and meetings.

Remote Control with PowerPoint® Control

Slides displayed using presentation software such as PowerPoint® can be easily moved forward and backward.

Presentation Support Tools

(3D Mode, Freeze, AV Mute)

Wide Range of Connection Terminals

These projectors are equipped with a wide variety of AV/PC terminals including HDCP compliant DVI terminals to meet the needs of digital content.



Other Outstanding Features

Direct Power Off Function

The Direct Power Off Function provides convenience for a variety of applications by keeping the cooling fan operating even after the power supply has been turned off. This lets users immediately unplug the projector and take it from the location because there is no need to wait for the projector to cool down. Along with Direct Power Off, the Auto Restart also helps control the power simultaneously for multiple projectors by using the room's primary power switch.

Video Noise Reduction

Reduces picture blur and provides clear pictures.

Scaling

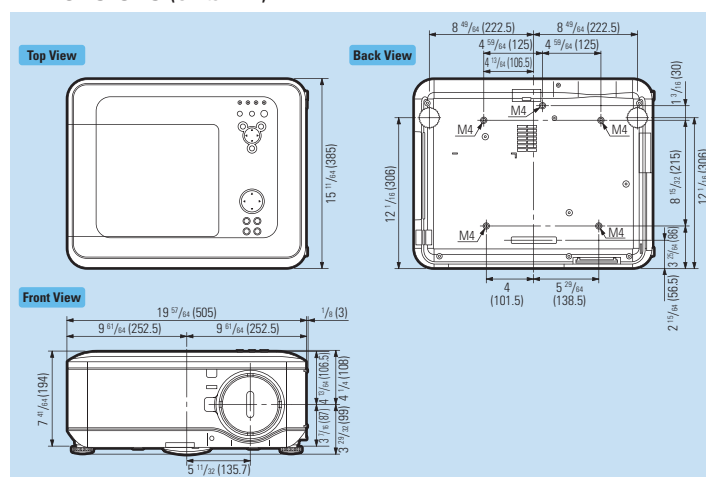
Helps to provide a high-quality image.

- **High-Speed Auto Response Adjust (ARA)**
- **Easy-to-Use Pull-Down Menu GUI** (Graphical User Interface): 15 languages selectable
- **High-Quality Video Circuits** (3D Y/C Separation Digital Comb Filter, Noise Reduction, Colour Transient and Y Delay, Colour Temperature Adjustment)
- **Auto Search**
- **Image Capture**
- **Keypad Lock**
- **Security Lock**
- **Easy-Carry Handle**
- **12 V Trigger Terminal**
- **Full-Function Remote Control**

XGPH80XN/XGPH80WN



Dimensions (Units: mm)



Optional Accessories Compatible with XGA/WXGA Models

Lenses



ANPH808EX
 Fixed wide lens
 F2.0
 f = 11.4mm
 T/R 0.8±1



ANPH814EZ
 Wide-zoom lens
 F1.8 - 2.3
 f = 19.3 - 25.8mm
 T/R 1:1.3 - 1.8



ANPH818EZ
 Standard zoom lens
 F1.7 - 1.9
 f = 26 - 34mm
 T/R 1:1.8 - 2.4

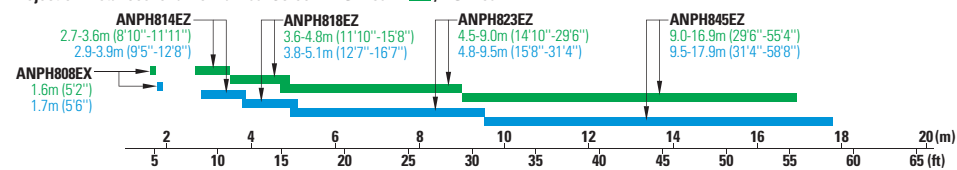


ANPH823EZ
 Tele-zoom lens
 F2.1 - 2.9
 f = 32 - 63mm
 T/R 1:2.2 - 4.4



ANPH845EZ
 Tele-zoom lens
 F2.2 - 3.1
 f = 63.5 - 117.4mm
 T/R 1:4.4 - 8.3

Projection Distances for a Normal 100" Screen*: XGPH80XN / XGPH80WN



* 4:3 for XGPH80XN / 16:10 for XGPH80WN

Lamp



ANPH80LP

Colour wheel



ANPH80CW

Cable



ANC3CP2
 3-RCA to 15-pin
 D-sub cable (3 m)

Model	XGPH80XN	XGPH80WN
3D ready	Compatible with DLP® Link™ Technology	
Display device	0.7" DLP chip x 1	0.65" DLP chip x 1
Resolution	XGA (1,024 x 768)	WXGA (1,280 x 800)
Luminance (Eco + Quiet Mode off)	6,300 ANSI lumens*1 (dual-lamp operation) 3,150 ANSI lumens*1 (single-lamp operation)	5,600 ANSI lumens*1 (dual-lamp operation) 2,800 ANSI lumens*1 (single-lamp operation)
Contrast ratio	2,100:1*1 (Dynamic Black™ on), 1,000:1*1 (Dynamic Black™ off)	
Projection size	50" (127 cm) to 200" (508 cm) diagonal (ANPH808EX), 40" (102 cm) to 500" (1,270 cm) diagonal (other lenses)	
Standard lens	F number Zoom Focus Lens shift Power, x1.3 (f = 26.0 to 34.9 mm) Power Vertical: +50%, Horizontal: +/-10%*2	
Input signals	Computer RGB UXGA (analogue), SXGA+ (analogue), SXGA, Mac 21" (in advanced intelligent compression), WXGA (intelligent compression with XGPH80XN), XGA, SVGA, VGA, VESA, Mac 19", 16", 13" NTSC, NTSC 4.43, PAL, PAL 60Hz, PAL-M, PAL-N, SECAM, EDTV, HDTV (480i/P, 576i/P, 720P, 1080i, 1080P)	
Input terminals	Analogue RGB/component x 2 (15-pin mini D-sub x 1, 5 BNC x 1), digital RGB/component (24-pin DVI-D/HDCP) x 1, audio L/R x 3 (3.5-mm stereo mini jack), video x 1 (RCA), S-Video x 1, audio L/R stereo x 2 (RCA), LAN x 1 (RJ-4, 10BASE-T, 100BASE-TX), RS-232C serial port x 1 (9-pin D-sub), USB (type B)	
Output terminals	Analogue RGB/component x 1 (15-pin mini D-sub x 1), audio L/R x 1 (3.5-mm stereo mini jack); Audio line-out is selectable/variable. 12 V DC trigger output (max. current: 200 mA)	
Frequency	15 Hz or 31 to 90 kHz horizontal, 50 to 85 Hz vertical	
Audio system	3 W x 2 (stereo), 51 mm x 41 mm speakers x 2	
Fan noise	39 dB*1 (Eco + Quiet Mode off), 34 dB*1 (Eco + Quiet Mode on)	
Projection lamps	280 W x 2	
Estimated lamp life*3	Eco + Quiet Mode off: Up to 2,000 hours, Eco + Quiet Mode on: Up to 3,000 hours	
OSD languages	English, German, Spanish, Dutch, French, Italian, Swedish, Portuguese, Russian, Polish, Hungarian, Turkish, simplified Chinese, Korean, Japanese	
Power consumption (standby)	715 W (0.28 W) with AC 100 V, 675 W (0.41 W) with AC 240 V	
Heat dissipation	2,682 BTU/hour (Eco + Quiet Mode off) with AC 100 V, 2,532 BTU/hour (Eco + Quiet Mode off) with AC 240 V	
Projection temperature	5 to 40°C	
Dimensions (W x H x D)	505 x 194 x 385 mm (main body only)	
Weight	16.5 kg (36.4 lbs.)	
Supplied accessories	Wireless remote with keyboard cursor control, two AAA batteries, 6' power cord, 6' RGB cable, dust-proof cap, projector manual and tech reference CD-ROM, operation manual	
Limited Warranty	3 Years Parts and Labour including 3 Years "ER" 24-Hour Turnaround Express Repair support. (90 day warranty on user-replaceable projection lamp.)	

• The figures in the specification tables above are values measured with the XGPH80XN/XGPH80WN using an optional standard lens (ANPH818EZ). • Signals input through the DVI terminal are not output through terminals. • Design and specifications are current as of March 2011 but are subject to change without notice. • DLP® and the DLP logo are trademarks of Texas Instruments. *1 To be announced. *2 The movement range of the power lens shift varies depending on the lens type. Even in the movement range of lens shift, there may be shadows in the top corners of the screen. For further information, inquire with your nearest Sharp authorized projector dealer, service centre or Sharp sales office before purchasing. *3 The lamp life may vary depending on usage conditions.

the **SHARP** experience

FOR PRODUCT INFORMATION CONTACT:

KEVIN SAINDON
 Technology Solutions Specialist
 direct 905.513.3609
 toll free 1.888.822.3111
kevin.saindon@briqholme.com

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